## **AMENDMENTS TO THE CLAIMS**

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1. (Original) A communication system, in which packet messages can be directed from anyone of a plurality of sending devices to one or more receiving devices, the receiving devices adapted for receiving such packet messages and for responding thereto, the system comprising:

a network over which each packet can travel, said network being temporally available for each packet and defined according to address information contained within each such packet, said packet routed along said temporal network by routers operating under partial control of packet address information;

at least one receiving device arranged in association with at least one gateway router, said gateway router serving to direct only those packets containing the address information of said associated receiving device to said associated receiving device;

a monitoring system operating in conjunction with said receiving device for gathering information pertaining to the operation of said receiving device; and

a feedback network for modifying the operational characteristics of said gateway router depending upon said gathered information.

2. (Original) The invention set forth in claim 1 wherein said gathered information is selected from the list containing:

number of arriving packets in a particular time interval; the type of requests contained within given packets; the nature of the informational content of the packets; the sending identity of the packets; the response destination of the packets; the traffic patterns formed by packets from specific sources; the number of arriving packets from specific sources; certain data contained in one or more messages; and the type of file attached to a message.

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3. (Previously Presented) The invention of claim 1 wherein said feedback network operates to compare said gathered information with certain pre-established criteria and to set limits with respect to said pre-established criteria, and wherein said operational characteristics of said gateway router are modified in accordance with said set limits, said limits applying to one or more of: a source of a packet and a volume of data.

- 4. (Previously Presented) The invention of claim 3 wherein said limits are dynamically changeable based upon said currently gathered information.
- 5. (Original) The invention set forth in claim 3 wherein said limits are changed manually.
- 6. (Original) The invention set forth in claim 1 wherein said gathered information is compared to statistics generated from said receiving device over a period of time.
- 7. (Original) The invention set forth in claim 6 wherein said statistics are gathered to reflect normal receiving device behavior over a period of time.
  - 8. (Canceled)
- 9. (Original) The invention set forth in claim 1 wherein said behavior change of said gateway router is selected from one or more of the following list:

blocking certain packets from reaching said receiving device;
blocking all packets from reaching said receiving device;
rerouting certain packets to another receiving device;
modifying the informational content of certain ones of said packets;
unblocking certain hitherto blocked packets, on the basis of certain parameters; and
modifying the informational content of certain ones of said packets.

10. (Original) The invention set forth in claim 1 wherein said feedback network stores information pertaining to received ones of said packets.

11. (Original) The invention set forth in claim 1 further including:
a system for monitoring packets leaving said receiving device; and
wherein said feedback network is further operable to selectively modify the
operational characteristics of said gateway router with respect to said leaving packets.

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- 12. (Previously Presented) The invention set forth in claim 1 wherein said monitoring system further gathers information pertaining to certain of said data packets; said certain data useful for providing information about the history of said certain packets.
- 13. (Original) The invention set forth in claim 12 wherein said last-mentioned gathered data is stored for future use.
- 14. (Original) The invention set forth in claim 12 wherein said certain data is selected according to a set of parameters pertaining to operation of said receiving device.
- 15. (Original) The invention set forth in claim 1 wherein said feedback network is further operable for modifying operational characteristics of said communication system remote from said router.
- 16. (Original) The invention set forth in claim 1 wherein said monitoring system and said feedback network are operational at least in part at an enterprise system served by said gateway router.

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17. (Original) A monitor system for use in conjunction with a particular site on a communication network; said site arranged to receive data addressed thereon via a network control device associated with said site and to send out onto the communication network via said control device data addressed to other communication network sites; said monitor system comprising:

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at least one system for tracking data flow situations within said particular site, said data flow situations selected from one or more of the following list: amount of arriving data in a particular time interval; the type of requests contained within given data; the nature of the informational content of the data; the sending identity of the data; the response destination of the data; the traffic patterns formed by data from specific sources; the amount of arriving data from specific sources; and identification of a specific data pattern; and

wherein said tracking system sends instructions from time to time to said control device to affect the flow of data to said particular site.

- 18. (Original) The invention set forth in claim 17 wherein said instructions from said tracking system are in part dependent upon a comparison of said tracked data flow situations with a pre-established set of parameters.
- 19. (Previously Presented) The invention set forth in claim 18 wherein said parameters are dynamically changing based upon said currently tracked data.
- 20. (Original) The invention set forth in claim 18 wherein said parameters are based on statistical data gathered over a period of time with respect to the operation of said particular site.
- 21. (Original) The invention set forth in claim 18 wherein said parameters are established from time to time manually.
- 22. (Original) The invention set forth in claim 18 wherein said parameters are received from a database.

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23. (Original) The invention set forth in claim 17 wherein said data flow tracking

system includes means for gathering information pertaining to certain of said data arriving at said particular site; said data to be gathered being useful for providing information about the

history of said data.

24. (Original) The invention set forth in claim 23 wherein said last-mentioned

gathered data is stored for future use.

25. (Original) The invention set forth in claim 23 wherein said last-mentioned

gathered data is selected according to a set of parameters pertaining to operation of said

particular site.

26. (Original) The invention set forth in claim 17 wherein said data flow is

effected by controlling data through a gateway unique to said particular site.

27. (Original) The invention set forth in claim 17 wherein said data flow is

effected by controlling data through one or more nodes remote from said particular sites.

28. (Original) A flow control system for use in conjunction with at least one node

on a communication network, said network operational for passing data between nodes of

said network, said system comprising:

means for real time review of certain parameters pertaining to data flowing between

nodes of said network;

means for comparing said monitored parameters against stored criteria; and

means for feeding data traffic affecting signals to one or more of said nodes under at

least partial control of said comparing means.

29. (Previously Presented) The invention set forth in claim 28 wherein said stored

criteria are dynamically changeable based upon current results of said comparing means.

30. (Original) The invention set forth in claim 29 further including:

means for storing certain of said monitored parameters for a period of time, at least

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some of said stored parameters being useful in determining at least a portion of the

communication history of said monitored data.

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- 31. (Cancelled)
- 32. (Cancelled)
- 33. (Original) The method of controlling data flow in a communication system in which packet messages can be directed from anyone of a plurality of sending devices to one or more receiving devices, the receiving devices adapted for receiving such packet messages and for responding thereto, the method comprising the steps of:

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receiving packet messages over a network where each such packet can travel to locations defined according to address information contained within each such packet and wherein each said packet is routed along temporal paths by routers operating under partial control of said address information in solo packets at a particular location in said network;

gathering information pertaining to the operation of said particular location; and modifying the data flow with respect to said particular location depending upon said gathered information.

34. (Original) The invention set forth in claim 33 wherein said gathered information is selected from the list containing:

number of arriving packets in a particular time interval;

the type of requests contained within given packets;

the nature of the informational content of the packets;

the sending identity of the packets;

the response destination of the packets;

the traffic patterns formed by packets from specific sources;

the number of arriving packets from specific sources;

certain data contained in one or more messages; and

the type of file attached to a message.

35. (Original) The invention of claim 33 wherein said gathering step includes the step of:

gathering information based upon certain pre-established criteria.

36. (Previously Presented) The invention of claim 35 wherein said pre-established criteria are dynamically changeable based upon currently gathered information.

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37. (Original) The invention set forth in claim 35 wherein said pre-established criteria are changed manually.

38. (Original) The invention set forth in claim 33 wherein said gathering step

includes the step of:

comparing said gathered information to statistics generated from said particular location over a period of time.

39. (Original) The invention set forth in claim 38 wherein said statistics are gathered to reflect normal particular location behavior over a period of time.

40. (Original) The invention set forth in claim 38 wherein said gathering step

includes the step of:

comparing said gathered information to expected parameters of said particular

location.

41. (Original) The invention set forth in claim 33 wherein said data flow

modification is selected from one or more of the following list:

storing certain packets for a period of time so as to delay said stored packets from reaching said receiving device for said period of time;

blocking certain packets from reaching said receiving device;

blocking all packets from reaching said receiving device;

rerouting certain packets to another receiving device;

modifying the informational content of certain ones of said packets;

unblocking certain hitherto blocked packets, on the basis of certain parameters; and

modifying the informational content of certain ones of said packets.

42. (Original) The invention set forth in claim 33 wherein said gathering step includes the step of:

storing information pertaining to received ones of said packets.

(Original) The invention set forth in claim 33 wherein said gathering step 43. includes:

monitoring packets leaving said particular location.

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44. (Original) The invention set forth in claim 41 wherein said modifying occurs

at a gateway router associated with said particular location.

45. (Original) The invention set forth in claim 41 wherein said modifying occurs

at a router remote from said particular location.

(Original) The invention set forth in claim 33 wherein said gathered data is 46.

useful for providing information about the history of said packets.

47. (Original) The invention set forth in claim 33 wherein said method includes

the step of:

storing said gathered data.

48. (Original) A method for controlling data flow in conjunction with at least one

node of a multi-node communication network operational for passing data between nodes of

said network in accordance with address information associated with packets, said method

comprising the steps of

reviewing certain parameters pertaining to data flowing between nodes of said

network;

comparing said monitored parameters against stored criteria; and

feeding data traffic affecting signals to one or more of said nodes under at least partial

control of said comparing step.

49. (Previously Presented) The invention set forth in claim 48 wherein said stored

criteria are dynamically changeable based upon current results of said comparing step.

(Original) The invention set forth in claim 49 further including the step of: 50.

storing certain of said monitored parameters for a period of time, at least some of said

stored parameters being useful in determining at least a portion of the communication history

of said reviewed data.

51. (Cancelled)

52. (Cancelled)

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## 53. (Cancelled)

54. (Original) A monitor system for use in conjunction with a particular site on a communication network; said site arranged to receive data addressed thereon via a network control device associated with said site and to send out onto the communication network via said control device data addressed to other communication network sites; said monitor system comprising:

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at least one system for tracking data flow situations within said particular site, said data flow situations selected from one or more of the following list: amount of arriving data in a particular time interval; the type of requests contained within given data; the nature of the informational content of the data; the sending identity of the data; the response destination of the data; the traffic patterns formed by data from specific sources; the amount of arriving data from specific sources; and identification of a specific data pattern; and

wherein said tracking system sends arriving data to data storage for a period of time, said time being dependent, in part, upon said tracked data flow situations.

- 55. (Original) The invention set forth in claim 54 wherein said tracked data flow situations are, in part, dependent upon comparisons with a pre-established set of parameters.
- 56. (Previously Presented) The invention set forth in claim 55 wherein said parameters are dynamically changing based upon data flow situations currently being tracked.
- 57. (Original) The invention set forth in claim 55 wherein said parameters are based on statistical data gathered over a period of time with respect to the operation of said particular site.
- 58. (Original) The invention set forth in claim 55 wherein said parameters are established from time to time manually.
- 59. (Original) The invention set forth in claim 55 wherein said parameters are received from a database.

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(Original) The invention set forth in claim 54 wherein said data flow tracking 60. system includes means for gathering information pertaining to certain of said data arriving at said particular site; said data to be gathered being useful for providing information about the history of said data.

- 61. (Original) The invention set forth in claim 60 wherein said last-mentioned gathered data is stored for future use.
- 62. (Original) The invention set forth in claim 60 wherein said last-mentioned gathered data is selected according to a set of parameters pertaining to operation of said particular site.
- (Original) The invention set forth in claim 55 wherein said data flow is 63. effected by controlling data through a gateway unique to said particular site, said data flow controlled, at least in part, by instructions sent dependent upon said comparison.
- 64. (Original) The invention set forth in claim 55 wherein said data flow is effected by controlling data through one or more nodes remote from said particular sites, said data flow controlled, at least in part, by instructions sent dependent upon said comparison.
- (Original) The method of controlling data flow in a communication system in 65. which packet messages can be directed from anyone of a plurality of sending devices to one or more receiving devices, the receiving devices adapted for receiving such packet messages and for responding thereto, the method comprising the steps of:

receiving packet messages over a network where each such packet can travel to locations defined according to address information contained within each such packet and wherein each said packet is routed along temporal paths by routers operating under partial control of said address information in solo packets at a particular location in said network;

gathering information pertaining to the operation of said particular location; and modifying the data flow with respect to said particular location depending upon said gathered information, said modification step including the step of storing certain of said received packets in a data base for future delivery to said defined address.

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66. (Original) The invention set forth in claim 65 wherein said gathered information is selected from the list containing:

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number of arriving packets in a particular time interval;

the type of requests contained within given packets;

the nature of the informational content of the packets;

the sending identity of the packets;

the response destination of the packets;

the traffic patterns formed by packets from specific sources;

the number of arriving packets from specific sources;

certain data contained in one or more messages; and

the type of file attached to a message.

67. (Original) The invention of claim 65 wherein said gathering step includes the step of:

gathering information based upon certain pre-established criteria.

- 68. (Previously Presented) The invention of claim 67 wherein said pre-established criteria are dynamically changeable based upon current results of said gathering step.
- 69. (Original) The invention set forth in claim 67 wherein said pre-established criteria are changed manually.
- 70. (Original) The invention set forth in claim 65 wherein said gathering step includes the step of:

comparing said gathered information to statistics generated from said particular location over a period of time.

- 71. (Original) The invention set forth in claim 70 wherein said statistics are gathered to reflect normal particular location behavior over a period of time.
- 72. (Original) The invention set forth in claim 70 wherein said gathering step includes the step of:

comparing said gathered information to expected parameters of said particular location.

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73. (Original) The invention set forth in claim 65 wherein said gathering step includes the step of:

storing information pertaining to received ones of said packets.

74. (Original) The invention set forth in claim 65 wherein said gathering step includes:

monitoring packets leaving said particular location.